Excel: Scroll-bars

View > Toolbars > Forms enables the Forms menu:

Selecting places a scroll-bar (or slider) on the screen. This returns an integer value between 0 and a fixed number.

Working with Scroll-bars
Select the scroll-bar from the forms menu and place one on the screen by holding down the left mouse button to create a rectangle.

Note: You may need to click outside the scroll-bar before it can be used.

Right-clicking and selecting Format Control on a scroll-bar allows you to link it to a cell. This can be done by selecting the Control tab and placing a cell-reference in the Cell link box:

See page 2 for details about how to create an interactive straight-line graph.
Creating an Interactive Straight Line Graph

1. Create two scroll-bars. Link one to cell A1, and one to cell B1.

2. Enter the following formula in A5:\[ A1/10 - 5 \]
Enter the following formula in B5:\[ B1/10 - 5 \]

*The values in A1 and B1 can only take positive integer values (or 0). The division by 10 allows decimal values and the -5 allows negative values.*

Now we type titles for these values. In A4 type ‘m’, and in B4 type ‘c’.

*Try out the scroll-bars. The screen should now look something like this:*

3. Create a table of values for \( x \), ranging from \(-5\) to \(5\).
   Do this by typing \(-5\) in A10, \(-4\) in A11 and so on, until you reach 5 in A20.
   Enter the following formulas in B10: \[ A5 \times A10 + B5 \]
   B11: \[ A5 \times A11 + B5 \]
   B12: \[ A5 \times A12 + B5 \]
   …until...
   B20: \[ A5 \times A20 + B5 \]

*This can be done quickly by entering the formula into B10 and dragging it down over the other cells, as the $-symbols act as absolute values.*

Type titles for the table. In A9 type ‘x’, and in B9 type ‘y’.

4. Select the whole table, including titles, and click on the chart wizard: Choose the XY (Scatter) chart-type and select the sub-type with smoothed lines without markers. Press Finish. The screen should look something like this:

*Hint: It is often better to right-click on the axes and set the minimum and maximum values to fixed.*